AV8365CO 8 Megapixel H.264 Color 360° Panoramic IP Camera
AV8365DN 8 Megapixel H.264 Day/Night 360° Panoramic IP Camera
AV8365CO-HB 8 Megapixel H.264 Color 360° Panoramic IP Camera w/ Heater & Blower
AV8365DN-HB 8 Megapixel H.264 Day/Night 360° Panoramic IP Camera w/ Heater & Blower

Bid-Spec

1.0 Description

The AV8365 SurroundVideo® series network camera is a dual encoder (H.264 & MJPEG), 8 Megapixel resolution, IP addressable 180 degree panoramic IP camera. The AV8365 SurroundVideo® camera line provides an all-in-one solution with integrated four high sensitivity 2 megapixel sensors, 4mm lens, vandal resistant dome enclosure with rated IP66 for water and dust protection, and optional heater/blower. Using MegaVideo® technology, these cameras offer bandwidth and storage efficiency of up to 10X on average over traditional megapixel counterparts

The AV8365 is a PoE (IEEE 802.3af) compliant camera with Color, Day/Night and optional heater & bower configurations. Built with Arecont Vision's proprietary massively-parallel MegaVideo® technology, the AV8365 has the ability to output multiple image formats allowing the simultaneous viewing of the full resolution field of view and regions of interest for high definition forensic zooming.

2.0 Bid Specification

- The camera shall utilize four high sensitivity 2 Megapixel CMOS sensors each with 1/2" optical format.
- The camera shall integrate four 4mm megapixel IR corrected, F1.8, Horizontal Field of View of 96°.
- The camera shall have vandal resistant dome enclosure with rated IP66 for water and dust protection.
- The camera shall contain both hard ceiling mount and surface mount and with optional pendant mount, SV-CMT, wall mount, SV-WMT, flush mount adapter, SV-FMA, electrical box adapter, MV-EBA or SV-EBA, pole mount adapter, MD-PMA , corner mount adapter, MD-CRMA, and junction box adapter, SV-JBA.
- The camera shall have a 2-axis easily adjustable gimbal with 360˚ pan 90˚ tilt for easy and accurate positioning.
- The camera shall have a +/- 10° tilt adjustment to locate the vertical position of each sensor.
- The camera shall be H.264 (MPEG4, Part 10) compliant.
- The camera shall have dual standard compression support with simultaneous streaming of both H.264 and MJPEG formats.
- The camera shall have multi-streaming support of up to 8 non-identical concurrent streams (different frame rate, bit rate, resolution, quality, and compression format).
- The camera's bit rate control shall be selectable from 100 Kbps to 10 Mbps for each independent stream.
- The camera shall have privacy mask, the ability to select multiple regions of an arbitrary shape to block the video. This feature will be supported both in HTTP and TFTP protocols, as well as the on-camera web interface.

- The camera shall have extended motion detection grid, a higher granularity grid of 1024 distinct motion detection zones in contrast to 64 zones supported earlier. User can select between the old 64 zone based motion detection and new extended motion detection to provide backward compatibility with the existing NVR integration. This feature will be supported both in HTTP and TFTP, as well as the on-camera web interface.
- The camera shall have Real Time Streaming Protocol (RTSP) support allowing for compatibility with media players such as Apple QuickTime, VLC Player and others.
- The cameras H.264 implementation shall maintain full real time video frame rates.
- The camera shall output at a maximum resolution of 1600(H) x 1200(V) pixels per sensor for a total resolution of 6400(H) x 1200(V) 6 frames per second across all four sensors.
- The cameras maximum frame rate shall be 22 frames per second across all four sensors at the maximum resolution of 1600(H) x 1200(V) per sensor.
- The cameras maximum frame rate shall be 88 frames per second across all four sensors at the maximum resolution of 800(H) x 600(V) per sensor.
- The cameras overall imaging shall provide a 360 degree field of view.
- The camera shall feature streaming of the full field of view (FOV) and multiple regions of interest (ROI) for forensic zooming.
- The camera shall be equipped with a 100 Mbps LAN connector and can deliver image data at a maximum data rate of up to 55 Megabits per second (55 Mbps).
- The camera shall provide 21 levels of compression quality for optimal viewing and archiving.
- The camera shall support a minimum HTTP, RTSP, RTP over TCP, RTP over UDP and TFTP network protocols.
- Each sensor of the camera shall feature automatic exposure, automatic multi-matrix white balance, shutter speed control, programmable brightness, saturation, gamma and sharpness.
- The camera shall also feature selectable 50/60 Hz flicker control, windowing and decimation, simultaneous delivery of full-field view and zoomed images at video frame rate, instantaneous electronic zoom, pan and tilt, and electronic image rotation by 180 degrees.
- The camera shall incorporate necessary algorithms and circuits to detect motion in low light with clarity.
- The camera shall support a minimum illumination of 0.1 Lux @ F1.8 in day mode (Color version only)
- The camera shall support a minimum illumination of 0.1 Lux @ F1.8 in day mode and 0 Lux @ F1.8 in night mode (Day/Night version)
- The camera's primary power source shall be Power over Ethernet (PoE) complying with the IEEE 802.3af standard.
- The camera shall have the alternative option to be powered from a 12V DC up to 48V DC or 24V AC power source providing at least 9 W of power.
- The camera shall be utilized for indoor and outdoor applications.
- The camera's operating ambient temperature is -30˚C (-22°F) to +55˚C (131°F) and storage temperature -60˚C (-76 °F) to +60˚C (140 °F).
- The camera shall be FCC Part 15, Class A, CE and RoHS compliant.
- The camera shall be UL listed.
- The camera shall have dimensions of: 6.9"H (176 mm) x 6.8" dia. (175 mm) weighing 2lbs (0.91kg).
- The camera shall have die-cast aluminum chassis with 5.5" vandal resistant polycarbonate dome bubble with IK10 rated.

Quick-Spec

3.0 Minimum Performance Specification

Megapixel camera must meet the following operating requirements

Operational

Imaging	Four 2 megapixel CMOS image sensors
	1/2” optical format
	Bayer mosaic RGB filter
Active Pixel Count	1600(H) x 1200(V) pixel array per sensor
	6400(H) x 1200(V) pixels across all four sensors
Minimum illumination	Day Mode: 0.1 Lux @ F1.8
	Night Mode: 0 Lux @ F1.8, IR sensitive (D/N version)
Dynamic range	61 dB
Maximum SNR	50 dB

Full Field of View (FOV) Resolutions per Sensor

6400(H) x 1200(V)	8megapixel
3200(H) x 600(V)	1/4 resolution

Data Transmission

Data rate

bit rate control from 100Kbps to 10Mbps

Video frame rate up to:

6fps @ 6400x1200

20fps @ 3200x600

22fps @ 1600x1200

Compression type

H.264 (MPEG4, Part 10)

Motion JPEG

21 levels of quality

TFTP, HTTP, RTSP, RTP over TCP, RTP over UDP image transmission protocols

100 Base-T Ethernet Network Interface

Multi-streaming: 8 non-identical streams

Programmability

Auto Exposure (AE) and Gain Control (AGC) >120dB

On-camera real-time motion detection with 1024 detection zones per sensor

Programmable backlight compensation

Auto multi-matrix white balance

50/60Hz selectable flicker control

Electronic pan, tilt, zoom (PTZ)

Electronic image flip - 180 degree rotation

Resolution windowing down to 32x32 pixels window

Programmable shutter speed to minimize motion blur

MoonLight™ mode - extended exposure and proprietary noise cancellation

Programmable resolution, brightness, saturation, gamma, sharpness, tint

Picture-in-Picture: simultaneous delivery of full field of view and zoomed images

Bandwidth & storage savings by running at 1/4 resolution

Electrical

General purpose opto-coupled input and output

Power over Ethernet (PoE): PoE 802.3af

DC input: auxiliary 12V-48V DC

AC input: auxiliary 24V AC

Power consumption 9 Watts maximum

Mechanical

2-axis easily adjustable gimbal with 360˚ pan 90˚ tilt

+/- 10˚ tilt adjustment to locate the vertical position of each sensor

Hard ceiling mount and surface mount embedded

Die-cast aluminum chassis with 5.5” vandal resistant polycarbonate dome bubble with IK10 rated

Dimensions(H x Dia)	6.9”H (176 mm) x 6.8” dia. (175 mm)
Weight	2 lbs (0.91kg)

Environmental

IP66 weatherproofing standard

Operating temperature -30˚C (-22 °F) to +55˚C (131°F)

Storage temperature -60˚C (-76 °F) to +60˚C (140 °F).

Humidity 0% to 90% (non condensing)

Heater & Blower Electrical

Voltage Input: 12V to 20V DC/24VAC (separate power required)

Power Output: 11W Max (DC12V); 13W Max (AC24V)

Heater Switch: On: 17C° (62.6 °F), Off: 30 °C (86 °F)

Blower Switch: On: 10C° (50°F), Off: 15 °C (59 °F)

Blower Switch: On: 50C° (122 °F), Off: 45 °C (113°F)

Regulatory

FCC, Class A

CE and RoHS compliant

UL Listed

Accessories

SV-WMT: Wall Mount

SV-PMT: Pendant Mount

SV-FMA: Flush Mount

MD-PMA: Pole Mount

MD-CRMA: Corner Mount

MV-EBA: Electrical Box Adaptor

SV-EBA: Electrical Box Adapter

SV-JBA: Junction Box Adapter

Optics:

4mm, F1.8, Horizontal FOV=96°

Related Documentation

AV8185 & AV8365 Network Camera Specification

SurroundVideo® Installation Manual

4.0 Model Numbers

The camera shall be Arecont Vision model AV8365CO, 8 Megapixel H.264 Color 360°Panoramic IP Camera

The camera shall be Arecont Vision model AV8365CO-HB, 8 Megapixel H.264 Color 360°Panoramic IP Camera w/ Heater & Blower

The camera shall be Arecont Vision model AV8365DN, 8 Megapixel H.264 Day/Night 360°Panoramic IP Camera

The camera shall be Arecont Vision model AV8365DN-HB, 8 Megapixel H.264 Day/Night 360°Panoramic IP Camera w/ Heater & Blower

5.0 Warranty

Minimum 1 Year parts and labor

Arecont Vision reserves the right to change products or specifications without notice.